Oracle

BEA

IBM

JBoss Enterprise Middleware Suite

STANDARDIZE ON JEMS TODAY

THE OPEN SOURCE PLATFORM FOR SOA

In today's highly competitive market, you must meet and exceed the demands of customers, suppliers, and partners. You must satisfy internal audiences too – even while reducing costs, streamlining operational efficiencies, and increasing ROI. In the push for success, the challenge is clear: you must transform your data center infrastructure, create new revenue streams, and deploy powerful, flexible, and modular applications fast. JBoss Enterprise Middleware Suite (JEMS) is the market leading open source platform for Service Oriented Architecture (SOA). JEMS provides a highly extensible and scalable suite of products for creating and deploying new revenue-generating applications.

JEMS is not the typical all-inclusive monolithic platform suite because it is designed from the ground up with flexibility and choice in mind. JEMS has an SOA foundation that defines clear interfaces for the plug-and-play of its products and components. This fundamental principle ensures that companies interested in consolidating their IT investments on a standard cost-effective enterprise platform can do so in a way that protects their current investments. Slash your total cost of ownership and make a huge leap in creating and deploying your complex enterprise applications by standardizing on JEMS today.

JBoss ®

Highlights and Key Features

Zero Cost, Open Source Product Licenses

The JEMS suite of products are open source licensed software and are free to download and free to use for both development and production deployments. This means companies no longer need to design around the number of software licenses that fit into their budget. Zero-cost product licenses ensure cost effective deployment across as many systems and CPUs as your applications require – with no hidden costs.

Cohesive Platform for SOA Provides Flexibility

Until now, enterprises looking to implement and realize the benefits from SOA have had to choose between pricey, monolithic, proprietary platforms or an assortment of open or mixed source components that need to be cobbled together. In contrast, JEMS delivers the only cohesive suite of market-leading open source middleware products that can be used alone, mixed and matched, or as a whole to build and deploy applications, business processes and Web services in a Services Oriented Architecture.

Plug-and-Play Foundation Protects Investments

All JEMS products have been designed for both extensibility and interchangeability of their functional components. The plug-and-play SOA microkernel protects your technological freedom of choice and provides greater return on your IT investments. This modular foundation dramatically reduces the risk of infrastructure obsolescence through sustained innovation and standards compliance. JBoss Inc. is committed to driving standards that result in unfettered technological interoperability.

Professional Open Source Drives Innovation

As companies adopt standards across their IT infrastructure, they must ensure their investments are future-proofed against obsolescence. The JBoss Professional Open Source methodology directly addresses this mandate. Since all of the JEMS products are designed to be used standalone, each product must drive innovation and achieve technical superiority on its own merits. JBoss invests heavily in continued innovation and R&D of all JEMS products by hiring the open source project leaders and experts as full-time JBoss employees. This important step of the JBoss Professional Open Source methodology results in innovative best-of-breed products such as JBoss Application Server, Apache Tomcat, and Hibernate – all of which are JBoss funded products.

Superior 24x7 Support from the Source

JBoss pioneered the Professional Open Source model whereby open source software is backed up with expert support services delivered by the product experts themselves. JBoss and the large network of JBoss Authorized Service Partners offer a comprehensive set of support offerings for the entire JEMS product suite including Professional Support, Consulting, and Training.

- **JBoss Subscription** – encompasses bug fixes, problem support, and developer assistance including configuration and performance optimization. Also included are indemnification and access to the JBoss Operations Network and customer support portal.

- **Training** – delivered both through public training courses hosted in major cities around the world or as private training courses hosted at your site.

- **Consulting** – generally short-term (3-5 day) engagements delivered by knowledgeable JBoss consultants.
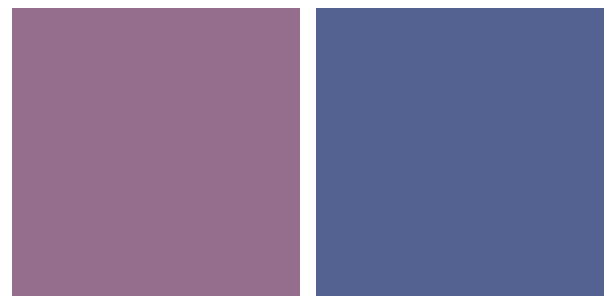
JEMS - The Open Source Platform for SOA

With a rich portfolio of best of breed software products designed to work together, standalone, or with your existing middleware solutions, JEMS enables you to make your own product choices as you evolve your data center into a service-centric infrastructure. JEMS is comprised of the following products that enable you to quickly develop powerful applications and Web services:

- **JBoss Application Server** is the #1 most widely used J2EE application server and provides all of the features expected in a J2EE 1.4 certified platform. JBoss AS is founded on a SOA microkernel that provides all J2EE 1.4 services – including EJB, JSP/Servlets, and Web Services – and extended enterprise services – for clustering, caching, and persistence – in a plug and play fashion. Moreover, JBoss AS provides a choice of development models – the standard J2EE 1.4 approach as well as the dramatically simplified Enterprise Java Bean 3.0 model. The new EJB 3.0 programming model allows enterprise services and behavior to be applied to standard Java objects using simple Java annotations – eliminating reams of boilerplate code and tedious XML descriptors.

- **Hibernate** is the #1 most widely used object/relational mapping (ORM) solution for Java environments. Hibernate directly addresses ORM complexities by providing the ability to map an object model's data representation to a relational data model and corresponding database schema. The

goal of Hibernate is to relieve enterprise application developers from 95 percent of common data persistence programming tasks by eliminating the need for manual, hand-crafted data processing using SQL and JDBC.

- **Apache Tomcat** is the #1 most widely used JSP/Servlet Web application container and the reference implementation for the J2EE 1.4 JSP/Servlet specification. Tomcat can be used standalone to power Web applications or used as part of JBoss AS to power more complex and scalable enterprise applications. Tomcat's Web Server Connectors also provide seamless integration between popular Web Servers, such as Apache HTTP Server, and enterprise Web applications powered by JBoss AS and Tomcat.

- **JBoss Cache** is a replicated and transactional cache that handles HTTP session replication to improve application performance. It can be used to manage frequently accessed Java objects within a local process or across distributed processes. JBoss Cache significantly improves application performance by managing local copies of Java objects that are expensive to retrieve or create. Optimized database access decreases network traffic, improves application scalability, and increases application performance.

- **JBoss Transactions** is an industry proven product for simplifying distributed transaction processing and delivering standards-based interoperability. Transaction processing plays a critical role in building reliable, sophisticated business applications by guaranteeing absolute completion and accuracy of business processes. JBoss Transactions is a 100% Java implementation of a distributed transaction system for Java EE and is compliant with the major industry standards, providing peace of mind to the enterprise with guarantees for business transaction integrity. With its support for WS-Transactions, JBoss Transactions provides maximum interoperability for your Web services applications both now and in the future.

- **JBoss Portal** provides a standards-based environment for hosting and serving a Portal's Web interface, publishing and managing its content, and customizing its experience. Enterprise Portals simplify access to information by providing a single source of interaction with corporate information. JBoss Portal provides the power to connect employees, partners, and customers with the information they need – improving business productivity and reducing costs. And because it is deployed on JBoss AS, access to dynamic information is made easy and performance and scalability are assured.

JEMS - The Open Source Platform for SOA

- **JBoss jBPM** is a powerful workflow and orchestration platform that enables coordination between disparate applications and services. JBoss jBPM combines the easy development of workflow applications with a flexible and scalable process engine, enabling interoperable applications to be implemented and deployed quickly and easily. By providing a flexible and robust framework for creating, coordinating, and monitoring business processes, JBoss jBPM makes changing complex business processes dramatically easier – significantly enhancing business agility.

- **JBoss Rules** provides an open source and standards-based business rules engine that enables easy business policy access, change and management. JBoss Rules is a fast and highly efficient rules engine that makes it easy for a business analyst or auditor to view your business rules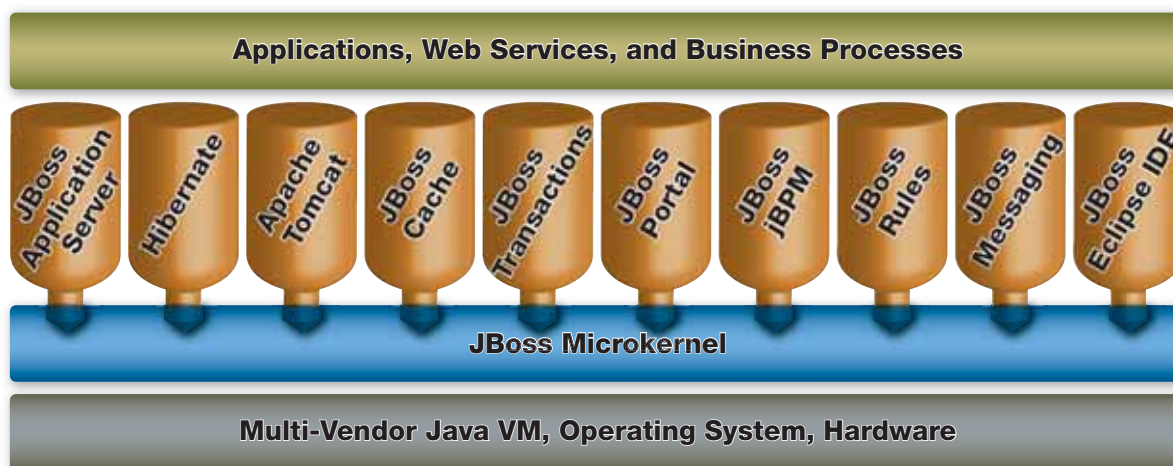 to verify that the encoded rules implement the desired business policies. JBoss Rules also supports a variety of language and decision table inputs, making it easy to quickly modify your business policies to respond to new business opportunities.

- **JBoss Messaging** provides an open source and standards-based messaging platform that brings enterprise-class messaging to the mass market. With support for the Java EE Java Message Service (JMS) specification, JBoss Messaging enables development of portable, transaction-driven messaging applications. JBoss Messaging implements a high performance messaging core that is designed to support both simple and complex asynchronous messaging needs. With its modular, plug-and-play architecture, JBoss Messaging is easy to use with other JEMS products.

- **JBoss Eclipse IDE** extends Eclipse – the #1 most widely used integrated development environment framework – with a series of tools that enable programmers to develop, deploy, test, and debug JEMS-based applications. JBoss Eclipse IDE provides a variety of wizards and features that ease development of J2EE and EJB 3.0 applications, as well as Hibernate and JBoss jBPM applications. By using the JBoss Eclipse IDE, developers can simplify application development and deliver greater value in less time.

Take the Next Step

To learn more about the JBoss Enterprise Middleware Suite, visit www.jboss.com/products.

Applications, Web Services, and Business Processes

JBoss Application Server · Hibernate · Apache Tomcat · JBoss Cache · JBoss Transactions · JBoss Portal · JBoss jBPM · JBoss Rules · JBoss Messaging · JBoss Eclipse IDE

JBoss Microkernel

Multi-Vendor Java VM, Operating System, Hardware

The JEMS plug-and-play SOA microkernel protects your technological freedom of choice and provides greater return on your IT investments, allowing you to standardize on JEMS at your own pace.

Getting Started
Contact us to learn more about JBoss Inc. support services. Please visit us at **www.jboss.com**, e-mail us at **sales@jboss.com**, or contact one of our sales offices:

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